

Roll No. :

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

HOMESEM-132

M.Sc. (Ist Semester) Examination Dec., 2022

FOOD AND NUTRITION

Paper - III

(Macro Nutrients in Human Nutrition)

Time : 3 Hours]

[Maximum Marks : 40

The question paper contains three Sections.

Section-A

(Marks : 1 × 10 = 10)

Note :- Answer all *ten* questions (Answer limit **50** words). Each question carries **1** mark.

Section-B

(Marks : 3 × 5 = 15)

Note :- Answer all *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries **3** marks.

Section-C

(Marks : 5 × 3 = 15)

Note :- Answer any *three* questions out of five (Answer limit **500** words). Each question carries **5** marks.

Section-A

1. Attempt all questions :

- (i) Hyperglycemia
- (ii) Proteins

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(1)

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- (iii) Fatty acids
- (iv) R.D.A.
- (v) Oligosaccharides
- (vi) Steatorrhoea
- (vii) Dietary fibre
- (viii) Urea cycle
- (ix) PUFA
- (x) Crude fibre

Section-B

2. Give a brief description of classifications of carbohydrates.

Or

Give a brief description of classification of proteins.

3. Write short note on functions and sources of proteins.

Or

Write short note on classification of lipids.

4. What is the physiological importance of resistant starch ?

Or

What is glycemic index and glycemic response to carbohydrates ?

5. Write short note of on regulation of blood glucose concentration.

Or

Write short note on relationship between energy and protein requirements.

6. Write short note on dietary requirements of lipids and excessive fat intake.

Or

What are the deficiency disorders of lipids ?

Section–C

7. Explain the methods of assessing protein quality and the factors influencing it.
8. Explain the process of digestion and absorption of proteins.
9. Explain the process of digestion and absorption of carbohydrates.
10. What are essential fatty acids ? Explain the role of omega-3 and omega-6 fatty acids.
11. Give the classification of dietary fibre. Explain the physiological role and health benefits of dietary fibre.